

SWBAT

identify direction of velocity and acceleration

Sep 4-7:31 AM

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Sep 5-9:09 AM

Welcome!!!

SECA CP Physics
Tuesday 10 November 2015



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Room C-244

- Open to page 33 for check-off

Centering
(quotes)

Opening Activity:

- Survey! PG 32

Which ones are a vector — SIZE & DIRECTION

=> direction is important

START TO END WITH DIRECTION

-distance -displacement -speed

-velocity -acceleration

SPEED w/ DIRECTION

CHANGE IN VELOCITY / CHANGE IN TIME

"In order to succeed, we must first believe that we can."

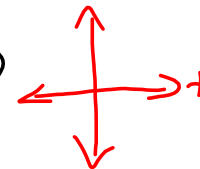
Sep 7-7:04 AM

Hmwk Pg 33 due Tuesday 11/10:

Flipping Physics: Basic Acceleration Example Problem

What was the point?

- DID AN EXAMPLE PROBLEM: FOUND
- 14.3 mph \rightarrow ENDED 23.7 mph \rightarrow
- $\leftarrow V$ SPEEDING UP $V \rightarrow +$
- $\leftarrow a$ $a \rightarrow +$
- $\leftarrow V$ SLOWING DOWN $V \rightarrow +$
- $\rightarrow a$ $a \leftarrow -$



Hmwk Pg 35 due Wednesday 11/11:

Flipping Physics: Introduction to Uniformly Accelerated Motion

Pg 31: Calculate acceleration!

$$v_1 = s_1 = +41.7 \frac{\text{cm}}{\text{s}} \quad v_2 = s_2 = +51.3 \frac{\text{cm}}{\text{s}} \quad v_3 = s_3 = +63.3 \frac{\text{cm}}{\text{s}}$$

$$a = \frac{\Delta v}{\Delta t} = \frac{v_2 - v_1}{t_1} = \frac{+51.3 \frac{\text{cm}}{\text{s}} - +41.7 \frac{\text{cm}}{\text{s}}}{0.915} = \frac{9.6 \frac{\text{cm}}{\text{s}}}{0.915} = 10.5 \frac{\text{cm}}{\text{s}^2}$$

Nov 9-8:19 AM

Direction of: L, R, 0 Pg 32

Scenario 1: Letting go of ball on left side

V_{initial} : 0 V_{middle} : V_{final} :

a_{initial} a_{middle} a_{final}

Scenario 2: Rolling ball up track starting on the right

Scenario 3: Throwing ball up into the air

Create a scenario with a car:

Nov 10-8:07 AM